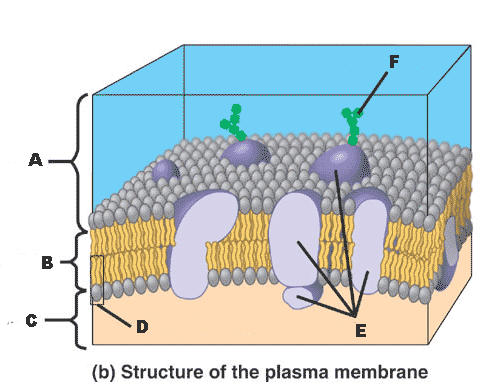
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**Pre-AP Biology: Unit 3, DBA #4 Review**

Ms. OK, 2014-2015

**Objectives Assessed:** Topic 1 (Cell Transport), Learning Targets G-J

***Practice Questions:*** *Answer the following questions thoroughly and accurately in preparation for your Daily Biology Assessment.*



1. Label A-F in the diagram to the right with the following terms: proteins, outside the cell, inside the cell, phospholipid tails, single phospholipid, carbohydrate chains

A.

B.

C.

D.

E.

F.

2. What is the function of most membrane proteins?

3. What is the function of carbohydrate chains on the surface of cell membranes?

4. Why do we use the phrase “Fluid Mosaic Model” to describe the cell membrane?

5. If a cell membrane lets any substance in or out of the cell in any amount, will this membrane be effective at maintaining homeostasis? Why or why not?

6. What does it mean to say that a substance is moving “down its concentration gradient?” Is this a passive or active process? Explain your answer.

7. Identify the type of cell transport—diffusion, facilitated diffusion, osmosis, or active transport—shown in each of the images and explain your answer.

|  |  |  |
| --- | --- | --- |
| **Image** | **Type of Cell Transport** | **Explanation** |
|  |  |  |
|  |  |  |
| http://2.bp.blogspot.com/-y-lnrcOAHs4/T6_edkMWk3I/AAAAAAAAAlA/FXKcmzmnzig/s1600/exocytosis.jpg |  |  |
|  |  |  |
|  |  |  |
| http://www.goldiesroom.org/Multimedia/Bio_Images/06%20Transport/06%20Osmosis.jpg |  |  |

8. Each image below shows an animal and plant cell in a particular type of solution—isotonic, hypertonic, or hypotonic solution. Identify the type of solution and explain your answer.

|  |  |  |
| --- | --- | --- |
| **Image** | **Type of Solution** | **Explanation** |
|  |  |  |
|  |  |  |
|  |  |  |